

Appl. No. 09/519,129
Amdt. dated May 6, 2004
Reply to Office action of October 28, 2003

In the Claims:

Claims 1, 8 and 14 are amended herein. The remaining claims are not amended in this response.

1. (currently amended) A hologram-recording dry plate fabrication process comprising steps of:

providing a supply of plurality of discrete sheets of a sheet-cut form of hologram recording photosensitive film comprising a supporting film, a hologram recording photosensitive material and a separator, said supply of sheets being in a pre-cut form and plural ones of said sheets being stored together in said pre-cut form;

iteratively feeding discrete ones of a substrate one by one from a supply having a plurality of substrates to a lamination section,

iteratively positioning ones of said sheet-cut form of hologram recording photosensitive film adjacent ones of said substrate,

releasing said separator from said fed ones of said sheet-cut form of hologram-recording photosensitive film, and

laminating said ones of said sheet-cut form of hologram-recording photosensitive film from which said separator is released on one surface from a hologram recording photosensitive

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material side to ones of said substrate at said lamination section.

2. (original) The hologram-recording dry plate fabrication process according to claim 1, wherein said separator-releasing step and/or said lamination step are carried out while said substrate and/or said hologram-recording photosensitive film are vertically supported.

3. (previously presented) The hologram-recording dry plate fabrication process according to claim 1 or 2, which comprises steps of:

feeding a sheet-cut form of adhesion-added light absorption film comprising a second separator, an adhesive layer and a light absorption film or a sheet-cut form of light absorption adhesive film comprising a third separator, a light absorption adhesive layer and a second supporting film,

releasing said second or third separator from said fed adhesion-added light absorption film or said fed light absorption adhesive film, and

laminating said adhesion-added light absorption layer or light absorption adhesive film from which said second or third separator is released on the opposite side of said fed substrate from an adhesive layer or light absorption adhesive layer side.

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4. (original) The hologram-recording dry plate fabrication process according to claim 3, wherein said separator-releasing step and/or said lamination step are carried out while said substrate and said adhesion-added light absorption film or said light absorption adhesive film are vertically supported.

5. (previously presented) The hologram-recording dry plate fabrication process according to claim 1 or 2, which comprises steps of:

feeding a sheet-cut form of adhesion-added, colored film comprising a second separator, an adhesive layer and a colored film, a sheet-cut form of colored adhesive film comprising a third separator, a colored adhesive layer and a supporting film or a sheet-cut form of adhesion-added antireflection film comprising a fourth separator, an adhesive layer and an antireflection film,

releasing said second, third, or fourth separator from said fed adhesion-added, colored film, said fed colored adhesive film or said fed adhesion-added antireflection film, and

laminating said fed adhesion-added, colored film, colored adhesive film or adhesion-added antireflection film from which said second, third, or fourth separator is released on the opposite side of said fed substrate from an adhesive layer or colored adhesive layer side.

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6. (original) The hologram-recording dry plate fabrication process according to claim 5, wherein said separator-releasing step and/or said lamination step are carried out while said substrate and said adhesion-added, colored film, said colored adhesive film or said adhesion-added antireflection film are vertically supported.

7. (previously amended) The hologram-recording dry plate fabrication process according to anyone of claims 1 or 2, wherein said hologram-recording photosensitive material comprises a photopolymer having adhesion.

8. (currently amended) A hologram-recording dry plate fabrication system comprising:

a substrate feeding means for iteratively feeding in a discrete manner, ones of a discrete substrate,

a supply of sheet-cut form film in a discrete pre-cut form, wherein plural ones of said sheets being stored together in said pre-cut form, said sheet cut form of film having a separator,

a film feeding means for discretely feeding from said supply of plural sheet-cut form film, discrete ones of said sheet-cut form of film, one by one,

said film being hologram-recording photosensitive material and said separator arranged to protect said film from dust and

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possible pressure exertable thereon during fabrication of the hologram-recording dry plate,

a separator releasing means for releasing said separator from said fed film, and

a lamination means for laminating said film from which said separator is released on one surface of said fed substrate from the side of the film from which the separator is released.

9. (original) The hologram-recording dry plate fabrication system according to claim 8, which further includes a means for supporting said fed substrate vertically and a means for supporting said fed film vertically, so that while said substrate and/or said film are vertically supported, said separator is released from said film by said separator releasing means and said film is laminated on said substrate by said lamination means.

10. (original) The hologram-recording dry plate fabrication system according to claim 8 or 9, wherein said film is any one of a sheet-cut form of hologram-recording photosensitive film comprising a supporting film, a hologram-recording photosensitive material and a separator, a sheet-cut form of adhesion-added light absorption film comprising a separator, an adhesive layer and a light absorption film and a sheet-cut form of light absorption adhesive film comprising a

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separator, a light absorption adhesive layer and a supporting film.

11. (original) The hologram-recording dry plate fabrication system according to claim 8 or 9, wherein said film is any one of a sheet-cut form of hologram-recording photosensitive film comprising a supporting film, a hologram-recording photosensitive material and a separator, a sheet-cut form of adhesion-added, colored film comprising a separator, an adhesive layer and a colored film, a sheet-cut form of colored adhesive film comprising a separator, a colored adhesive layer and a supporting film and a sheet-cut form of adhesion-added antireflection film comprising a separator, an adhesive layer and an antireflection film.

12. (previously presented) The hologram-recording dry plate fabrication system according to claim 8 or 9, wherein said film is any one of a sheet-cut form of hologram-recording photosensitive film comprising a supporting film, a hologram-recording photosensitive material and said separator, a sheet-cut form of adhesion-added light absorption film comprising a separator, an adhesive layer and a light absorption film and a sheet-cut form of light absorption adhesive film comprising said separator, a light absorption adhesive layer and a supporting film, wherein said film has a side being vacuum-attractable by a

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sucking means for sucking said film said sucking means having a converting means to convert said film to a position accessible to said separator releasing means.

13. (previously presented) The hologram-recording dry plate fabrication system according to claim 8 or 9, wherein said film is any one of a sheet-cut form of hologram recording photosensitive film comprising a supporting film, a hologram-recording photosensitive material and said separator, a sheet-cut form of adhesion-added, colored film comprising a separator, an adhesive layer and a colored film, a sheet-cut form of colored adhesive film comprising said separator, a colored adhesive layer and a second supporting film and a sheet-cut form of adhesion added-antireflection film comprising said separator, an adhesive layer and an antireflection film wherein said film has a side being vacuum-attractable by a sucking means for sucking said film said sucking means having a converting means to convert said film to a position accessible to said separator releasing means.

14. (currently amended) A system for making hologram-recording dry plates comprising a substrate and a film, a film feeding means for iteratively and discretely feeding discrete ones of said film, said film having a removable separator, said substrate being held in a vertical position by a vertical support section, said film being positionable in a vertical position

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opposite said substrate, a separator release section for removing said separator thereby exposing said film, a lamination unit for laminating said film to said substrate.

15. (previously presented) A system for making hologram-recording dry plates according to claim 14 wherein said film is any one of a sheet-cut form of hologram recording photosensitive film comprising a supporting film, a hologram-recording photosensitive material and said separator, a sheet-cut form of adhesion-added light absorbing film comprising said separator, an adhesive layer and light absorption film and a sheet-cut form of light absorption adhesive film comprising said separator, a light absorption adhesive layer and a supporting film.

16. (previously presented) A system for making hologram-recording dry plates according to claim 14 wherein said film is any one of a sheet-cut form of hologram recording photosensitive film comprising a supporting film, a hologram-recording photosensitive material and said separator, a sheet-cut form of adhesion-added colored film comprising said separator, an adhesive layer and colored film, a sheet-cut form of colored adhesive film comprising said separator, a colored adhesive layer and a second supporting film and a sheet-cut form of adhesive-added antireflection film comprising said separator, an adhesive layer and an antireflection film.

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17. (previously presented) A system for making hologram-recording dry plates according to claim 14 wherein the film has a second separator on a surface opposite said separator and said second separator is removed in said separator release section, after said film is laminated in said lamination unit, a substrate ejection section for ejecting said substrate.

18. (previously presented) The hologram-recording dry plate fabrication process according to claim 3, wherein said hologram-recording photosensitive material comprises a photopolymer having adhesion.

19. (previously presented) The hologram-recording dry plate fabrication process according to claim 4, wherein said hologram-recording photosensitive material comprises a photopolymer having adhesion.

20. (previously presented) The hologram-recording dry plate fabrication process according to claim 5, wherein said hologram-recording photosensitive material comprises a photopolymer having adhesion.

21. (previously presented) The hologram-recording dry plate fabrication process according to claim 6, wherein said hologram-recording photosensitive material comprises a photopolymer having adhesion.